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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/784,627	02/23/2004	David J. Benard	01AB005A / 8374 ALBRP234USA		
7590 09/09/2005			EXAM	EXAMINER	
Susan M. Donahue			PATEL, NITIN		
Rockwell Automation 704-P, IP Department			ART UNIT	PAPER NUMBER	
1201 South 2nd Street			2673		
Milwaukee, WI 53204			DATE MAILED: 09/09/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/784,627	BENARD ET AL.			
		Examiner	Art Unit			
		Nitin Patel	2673			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONED	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)🛛	Responsive to communication(s) filed on 24 Ju	<u>ine 2005</u> .				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.					
3)□	•					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-23</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) <u>1,2,6-17,20 and 21</u> is/are rejected. Claim(s) <u>3-5,18,19,22 and 23</u> is/are objected to Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	ion Papers					
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Ex	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is objected	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	t(s)					
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-2, 6-17,20,21 are rejected under 35 U.S.C. 102(e) as being anticipated by Kent (U.S. Patent No. 6,723,929).

As per claim 1, Kent shows a touch screen system (In Abstract) having a substrate that has a surface (In fig.13) a plurality of acoustic wave transducers having at least a first acoustic wave transducer that is fixed to a perimeter of the substrate surface and transmits a first acoustic wave across the substrate surface(In fig.13 element 1301 and 1305) and a control component that determine a location of a perturbation on the substrate surface (In fig.31a controller element 3140).

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As per claim 2, Kent discloses a plurality of transducers at least second and third acoustic wave transducers located near the perimeter of the substrate surface that receive acoustic waves that propagate along the substrate surface (In fig.15 and In col.57 lines 50-67).

As per claim 6, Kent shows the surface is at least one of sod lime glass substrate capable of supporting acoustic wave propagation (In col. 19 lines 35-67).

As per claim 7, Kent shows at least one piezoelectric element (In Col.29 lines 32-37).

As per claims 8-11, Kent disclose plurality of transducers transmitting transducer that convert an electrical signal into an acoustic wave that is propagated across the surface (In fig.13) and at least two receiving transducers that convert an acoustic wave that is propagated across the substrate surface into an electrical signal (In fig.15) which having an amplifier associated with each receiving transducer that amplifies the electrical signal produced by the receiving component for analysis by the control component (In fig.30 and 31).

As per claims 12, 20 Kent disclose for determining a location of a perturbation on a substrate surface having transmitting an acoustic wave across a substrate surface from one or more transducer coupled to perimeter of the substrate surface (In fig.13 x and y transducers); detecting the transmitted acoustic wave at two or more points (in fig.16) and detecting extant time delays between transmission of the acoustic wave and receipt of the acoustic wave at the at least two points (In fig.21 using time delays) and

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determining a location of the substrate surface based at least in part on detected time delays (In fig.14 and description of fig.14 in specification).

As per claims 13-17, Kent shows acoustic wave at a broad diffraction angle to propagate (in fig.15 at the angle of 60 degree) and transmitting the electrical signals during transmission to the control compound (In col.37-45).

As per claim 21, Kent shows longitudinally directing a transmitted acoustic wave to the means for receiving the transmitted acoustic wave (In fig.13).

Allowable Subject Matter

3. Claims 3-5,18,19,22,23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art fails to teach or suggest the location of the perturbation on the substrate surface is determined based, at least in part, on time delays between transmission of the first acoustic wave from the first transducer and receipt of a corresponding acoustic wave at each of the second and third transducers that was reflected or scattered from the location of the substrate surface being perturbed as claimed in claim 3.

The prior art fails to teach or suggest analyzing the electrical signals to determine the time delay between transmission of the acoustic wave and receipt of the transmitted acoustic wave at each receiving transducer as claimed in claim 18.

The prior art fails to teach or suggest for converting an electrical signals into a mechanical signal that stresses the substrate surface and converting a mechanical

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stress signal to an electrical signal indicative of the mechanical stress signal as claimed in claims 22,23.

Response to Arguments

4. Applicant's arguments with respect to claims 1-23 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nitin Patel whose telephone number is 571-272-7677. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin H. Shalwala can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NP

September 5, 2005